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APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,619	10/084,619 02/28/2002		Richard Foss	1351827-0117 4131		
293	7590	02/28/2003				
DOWELL &	DOWE	ELL PC	EXAMINER			
SUITE 309	COLD	1110 1110111111111111	LE, THONG QUOC			
ARLINGTON		VIS HIGHWAY				
AREINGTOR	1, VA 2.	2202		ART UNIT	ART UNIT PAPER NUMBER 2818	
				2818		
			DATE MAILED: 02/28/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

			m/					
	Application No.	Applicant(s)						
	10/084,619	FOSS ET AL.						
Office Action Summary	Examiner	Art Unit	··· ·					
	Thong Q. Le	2818						
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the c	correspondenc address						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl' - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed s will be considered timely. I the mailing date of this communicatio	n.					
1) Responsive to communication(s) filed on	<u> </u>	ı						
7=-	is action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdra	wn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-7</u> is/are rejected.								
7) Claim(s) is/are objected to.	1 de la contracta							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers	ar							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 16 May 2002 is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:								
1. ☐ Certified copies of the priority documen	ts have been received.							
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No. <u>09/894,900</u> .							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
l .	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ry (PTO-413) Paper No(s)						
2) Notice of References Cited (PTO-652) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	Patent Application (PTO-152)						

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DETAILED ACTION

1. Claims 1-7 are presented for examination.

Information Disclosure Statement

- 2. This office acknowledges receipt of the following items from the Applicant: Information Disclosure Statement (IDS) filed on July 16, 2002.
- 3. Information disclosed and list on PTO 1449 was considered.

Priority

- 4. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/894,900, filed on 06/29/2001. *Drawings*
- 5. The corrected or substitute drawings were received on May 16, 2002. These drawings are acceptable.

Specification

Applicant's cooperation is requested in correcting any errors of which applicant 6. may become aware in the specification.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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ad . . .

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 8. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Hsu et al. (U.S. Patent No. 6,370,052).

Regarding claims 1, 7, Hsu et al. disclose a CAM (Figure 6) having a plurality of ternary memory cells in a fabricated semiconductor material, each ternary half cell comprising:

an equal number of transistors (Figure 6, 600) of a p-type and n-type, the p-type being formed in a n-well region and the n-type transistors being formed in a p-well region of the semiconductor material, the wells having at most one p+ to n+ region spacing (Column 5, lines 10-13), the transistors being interconnected to form the half ternary CAM cell and wherein the interconnections between the half cell are restricted to a first group of conductive layers and connections between the cell and signal lines external to the cell are formed in a second group of conductive layers (Figure 6).

Regarding claims 2-6, Hsu et al. disclose the external signal lines are search line, matchline, bitline and word line (Figure 8, KL, BL, ML, WL) as claims 2-6 disclose.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 703-306-9123. The examiner can normally be reached on 8:00am-5:00pm M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3329.

Thong Q. Le Examiner

Woyle

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February 19, 2003